



REPORT OF

STTP

ORGANIZED BY CIVIL ENGINEERING DEPARTMENT,

PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY

ON

**RECENT TRENDS IN STATISTICS AND
PROBABILITIES FOR RESEARCH IN ENGINEERING**

18-20 JULY,2011

There are significant R & D activities going on in various academic and industrial institutions throughout India in general and Western Region in particular. Employers have understood the importance of R & D in the context of property of knowledge. To substantially save money on royalty and to earn money through patents, it is highly advisable to invest at least 10% of the profit in R & D activities which should be of world standards. Considerable economies in calculations can be achieved by approximately planning an experiment in advance. Proper experimental planning can give a reasonable assurance that the results of the experiment will provide a clear cut answers to questions under investigation. Recent advances in experimental designs, testing, randomization to avoid confounding the variable under investigation with other uncontrolled variables, randomized block designs, best fitted probability distributions, etc were discussed in this Short Term Training Programme.

MAJOR THRUST AREAS TARGETED

- Probability Densities
- Sampling Distributions
- Inferences Concerning Means
- Inferences Concerning Variances
- Inferences Concerning Proportions
- Non parametric Tests
- Curve Fitting
- Use of Data fit 8.2 Software
- Analysis of Variance
- Factorial Experimentation
- Univariate and Multi variate Probability density functions
- Best Fitted Probability Distributions
- Use of Easy fit Software
- Emphasis on Time series modeling
- Applications of Statistics -Probabilities
- Artificial Intelligence and Its Applications

The STTP was inaugurated by Shri R.K.Suryavanshi, Dy.Secretary, Sardar Sarovar Construction Adv.Com., MOWR, Govt. of India at 10:30 on 18th July, 2011 in the Seminar Hall of PIET. The Inaugural function was presided by Dr.Vilin Parekh,Principal,PIET,Degree(First Shift). The theme of STTP was explained by Dr.D.T.Shete,Vice Principal,PIET-Degree(First Shift),HOD-Civil Engineering Department and Co-ordinator of the STTP. Shri R.K.Suryavanshi discussed in detail the importance of Statistics and Probabilities for Research in Engineering. Dr.D.T.Shete extended Vote of Thanks by offering virtual flowers to the dignitaries and staff members who helped to organize the STTP.

32 participants from all over Gujarat attended the STTP. As per their remarks at the time of Valedictory Function held at 16:00 on 20th July,2011 the purpose of organizing this STTP was fulfilled to their utmost satisfaction. Dr.Subimal Ghosh,Professor, Civil Engineering Department, IIT-Bombay and Dr.Shrikant Charhate, General Manager, Core Projects and Technologies Lt.d.,Bombay were some of the prominent personalities among the resource persons who contributed to the success of STTP. Dr.Shrikant Charhate was the chief guest on the occasion of Valedictory Function.

SCHEDULE

SHORT TERM TRAINING PROGRAMME ON

“Recent Trends in Statistics and Probabilities for Research and Engineering”
18- 20 July, 2011

PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY - LIMDA

SCHEDULE OF LECTURES (Civil Engg. Dept)

DAY	NAME OF RESOURCE PERSON	DESIGNATION & ORGANIZATION	DATE	TIME	TOPIC
1	Ms. Neha Patel	Asst. Professor, WREMI, The M.S.U.of Baroda	18.07.2011	11:15 AM TO 1:00 PM	Fundamentals of Probability & Statistics
	Dr.Falguni Parekh	Asst. Professor, WREMI, The M.S.U.of Baroda	18.07.2011	02:00 PM TO 3:45 PM	Regression Analysis
	Ms.Shital T.Shah	Principal, Diploma Studies, PASM,Limda	18.07.2011	03:45 PM TO 5:30 PM	Application of Fuzzy Logic
2	Dr.Falguni Parekh	Associate Professor, WREMI, The M.S.U.of Baroda	19.07.2011	10:00 AM TO 11:30 AM	Analysis of Variance
	Dr.D.T.Shete	Professor,Vice Principal,HOD Civil Eng. Dept.,PIET-Degree	19.07.2011	11:30 AM TO 1:00 PM	Some Concepts of Hydrologic Modeling
	Dr.D.C.Vakaskar	Professor, Applied Mathematics Dept, Faculty of Tech. & Engg. The M.S.U.of Baroda	19.07.2011	02:00 PM TO 3:30 PM	Univariate and Multivariate Probability Distribution Functions
	Dr.T.M.V.Suryanarayana	Asst. Professor, WREMI, The M.S.U.of Baroda	19.07.2011	03:30PM TO 5:00PM	Statistical Applications In Hydrology: Emphasis on Time Series Modeling
	Dr.T.M.V.Suryanarayana	Asst. Professor, WREMI, The M.S.U.of Baroda	19.07.2011	5:00PM TO 6:30PM	Ant Colony Optimization
3	Dr.Subimal Ghosh	Professor, Civil Engineering Department, IIT, Mumbai	20.07.2011	10:00 AM TO 11:45 AM	Application of Statistics and Probabilities Theories
	Dr.M.K.Khandelwal	Principal Scientist, S.S.R.C.(ICAR), Bharuch	20.07.2011	11:45 AM TO 1:00 PM	Use of Statistics and Probabilities Softwares
	Dr.Shrikant Charhate	General Manager, Core Projects & Technologies Ltd., Mumbai	20.07.2011	02:00 PM TO 4:00 PM	Artificial Intelligence and Its Applications to Civil Engineering Problems



Chief Guest **Dr. R.K.Suryavanshi**, Dy.Secretary,Sardar Sarovar Construction Adv. Com.,MOWR, Gov.of India, **Dr. Villin Parekh** and **Dr. D.T.Shete** during opening ceremony of STTP



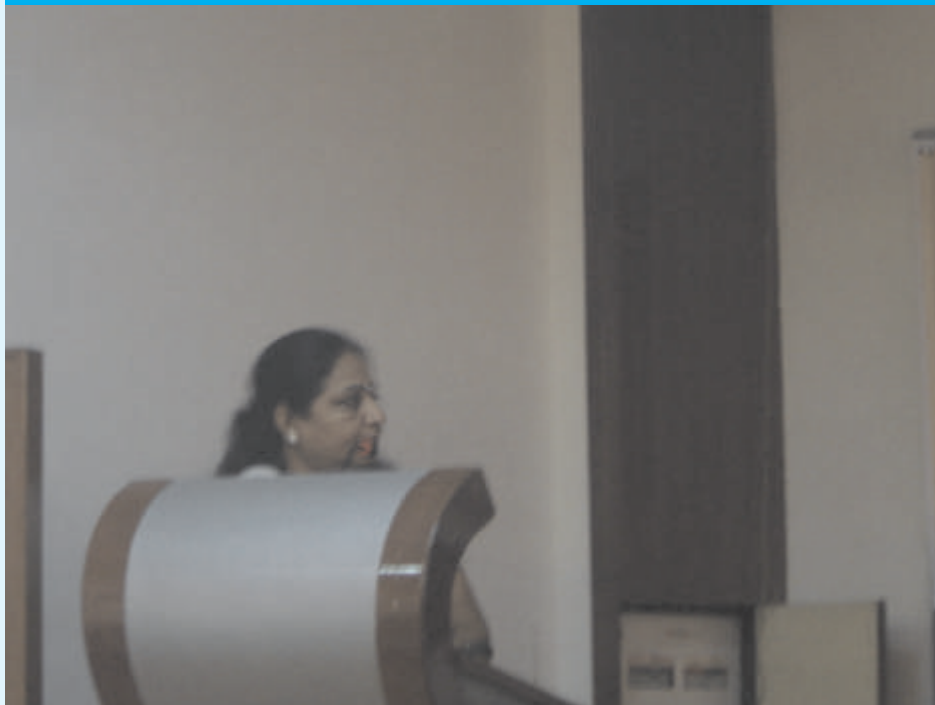
Dr. Subimal Ghosh, Professor,Civil Engineering Department,IIT,Bombay, delivering lecture on Application of Statistics and Probabilities Theories



Chief Guest **Dr. R.K.Suryavanshi, Dr.Villin Parekh and Dr.D.T.Shete**
Opening CD for course material for STTP



Ms. Neha Patel, Asst. Professor, WREMI, The M.S.Uni. of Baroda,
delivering lecture on Fundamentals of Probability and Statistics



Dr. Falguni Parekh, Associate Professor, WREMI, The M.S. Uni. of Baroda, delivering lecture on Regression Analysis



Dr. T.M.V. Suryanarayana, Asst. Professor, WREMI, The M.S. Uni. of Baroda, delivering lecture on Ant Colony Optimization



Dr. Shrikant Charhathe, General Manager, Core Projects and Technologies Ltd, Bombay awarding certificate to participants after delivering a lecture on Artificial Intelligence and its applications to Civil Engineering Problems



Group photo of Participants of STTP